

TORSKIY, P.N.

International symposium on the problem of silicosis in the mining industry. Gor.zhur. no.5:75 My '61. (MIRA 14:6)

1. Novocherkasskiy politekhnicheskiy institut.
(Lungs—Dust diseases) (Mine ventilation—Congresses)

TORSKIY, P.N., kand.tekhn.nauk

Control of air dustiness in the Donets Basin coal mines. Ugol'
37 no.3:45-47 Mr '62. (MIRÁ 15:2)

1. Novocherkasskiy politekhnicheskiy institut.
(Donets Basin--Mine dusts)

TORSKIY, P.M., kand. tekhn. nauk; QNTIN, Ye.I.

Concerning the "Reference aid for controlling dust in coal mines". Bezop. truda v prom. 8 no.9:58 S '64 (MIRA 18:1)

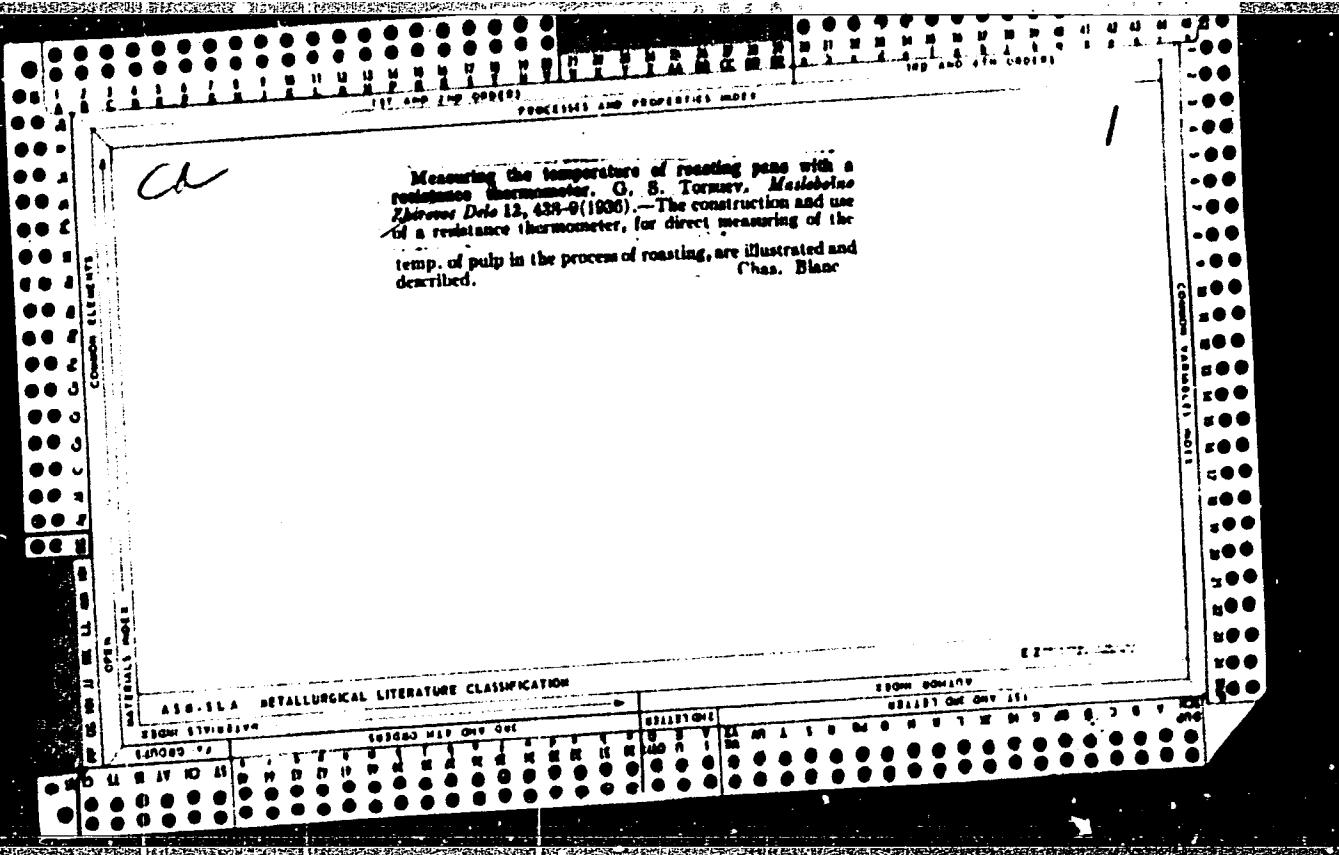
1. Novocherkasskiy politekhnicheskiy institut (for Torskiy).
2. Nachal'nik otdela Vostochnogo nauchno-issledovatel'skogo instituta po bezopasnosti rabot v gornoj promyshlennosti (for Qntin).

GORB, T.V. [Horb, T.V.], doktor sel'skokhoz.nauk; TERESHCHENKO, F.K., kand.biolog.nauk; BOGATYISKIY, O.T. [Bohaieva'kyi, O.T.], kand.veterin.nauk; POTYEMKIN, M.D., [Pot'omkin, M.D.] akademik; KNIGA, M.I. [Knyha, M.I.]; POPOV, O.Ya., kand.sel'skokhoz.nauk; KHMELIK, G.G. [Hmelyk, H.H.], kand.sel'skokhoz.nauk; SHRAM, I.P., kand.sel'skokhoz.nauk [deceased]; KOPIL, A.M., kand.sel'skokhoz.nauk; TSCHLYUTIN, V.K., kand.sel'skokhoz.nauk; BOZHKO, P.Yu., doktor sel'skokhoz.nauk; KROMIN, S.S., kand.sel'skokhoz.nauk; ZEMLYANSKIY, V.M. [Zemlians'kyi, V.M.], kand.sel'skokhoz.nauk; BORISENKO, A.M. [Borysenko, A.M.], kand.biolog.nauk; ZAKHARENKO, V.B., kand.biolog. [Zakharenko, V.B.], kand.biolog.nauk; KHRABUSTOVSKIY, SMIRNOV, I.V. [Smirnov, I.V.], kand.biolog.nauk; TORSTYANETS'KA, M.N., I.F. [Khramustova'kyi, I.F.], kand.biolog.nauk; ALESHKO, P.I. [Inzh.]; VASIL'YEV, [Trostianets'ka, M.N.], assistent; BUGAYENKO, I.I. [Buhaienko, I.I.], Vasyl'iev, O.F., kand.tekhn.nauk; BUGAYENKO, I.I. [Buhaienko, I.I.], starshiy prepodavatel'; TRAKHTOMIROVA, O.O., kand.ekonom.nauk; BUTKO, S.D., kand.ekonom.nauk; TELESHIK, K.G. [Teleshyk, K.H.], doktor ekonom.nauk; YAROSHENKO, V.D., kard.ekonom.nauk; LISIY, I.Y. [Lisyi, I.I.], red.; YEROSHENKO, T.G. [Eroshenko, T.H.], tekhn.red.

[Handbook for zootechnicians] Dovidnyk zootekhnika. 2., dopovnene i pereroblene vyd. Kyiv, Derzh.vyd-vo sil's'kohospodars'koi lit-ry URSR, 1960. 728 p.

(MIRA 15:2)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina (for Potemkin). 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Kniga).
(Stock and stock breeding)



Relation to metals of sulfur solutions and of a series of organic sulfur compounds in saturated hydrocarbons. II. Reactions to iron of ethyl and butyl mercaptan solutions in cyclohexane. L. G. Cliftin, I. J. Torsney, and V. A. Kostyuk. *Compt. rend. Acad. Sci. URSS*, 18, 193 (1937). It was shown by infrared spectroscopy dissolved in cyclohexane for 80°, and in one case for 1020°, days at room temperature. The corrosion attack was investigated by visual observation, and by direct analysis analytically in the solution and microanalytically in the product formed on the iron surface. It was unaffected by the mercaptan solns. It was shown that, under certain conditions, the lump method was sufficiently accurate for the S determinations. — P.

AM-3A METALLURGICAL LITERATURE CLASSIFICATION

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Common Elements

PROCESSES AND PROPERTIES

"Investigation of the Corrosion of Metals by Non-Electrolytes. II. Action of Light Hydrocarbon Fuels on Metals and Alloys." L. G. Gundin, I. I. Toropov, and R. S. Ambarumjan (*Izvestia Akademii Nauk S.S.R. (Bull. Acad. Sci. U.R.S.S.)*, 1938, [vii], (1), 75-89).—[In Russian.] Cf. preceding abstract. The vigorous attack on metals by cracked petrols is due to their auto-oxidation; this is proved experimentally in the case of zinc. It was established that the attack of zinc is a function of acid concentration as also of resin-forming substances in the petrols in contact with this metal. It was shown that a peculiar film may form on the zinc, protecting it from attack. N. A.

AT&T-BELL METALLURGICAL LITERATURE CLASSIFICATION

1938-1940 1941-1945 1946-1950 1951-1955 1956-1960

SIGNIFICANT
CHARACTERISTICS

CD

The behavior toward metals of sulfur solutions and of a series of organic sulfur compounds in saturated hydrocarbons. L. G. Gladis, I. I. Torgov and V. A. Kazanova. *Compt. rend. acad. sci. U. R. S. S. [N. S.]*, 3, 319-323(1930).—The action on metals of 8 solns. and their org. compds. in satd. hydrocarbons is analyzed critically. Hexane-sulfur soln. is entirely indifferent to steel and Pb; reacts decidedly with Cu with the formation of CuS.
M. McMahon

ASSISTANT METALLURGICAL LITERATURE CLASSIFICATION

"The Behaviour to Metals of Solutions of Sulphur and of a Number of its Organic Derivatives in Saturated Hydrocarbons." L. G. Gundin, I. I. Torgov, and V. A. Kazakova (*Izdatel'stvo Akademii Nauk S.S.R.*, 1936, **3**, (5), 219-223 (Ukrainian); and *Comp. rend. Acad. Sci. U.R.S.S.*, 1936, [N.S.], **3**, (5), 219-223 (German)). - Steel and commercial lead are completely unattacked after immersion for 16 months in a 0.35% solution of sulphur in hexane, but fine refined copper under the same conditions is rapidly converted into cupric sulphide. - N. A.

ASG-11A METALLURGICAL LITERATURE CLASSIFICATION

ca

7

Investigation of corrosion of metals by nonelectrolytes.
II. Action of cracked benzenes on zinc. L. G. Gindin,
I. I. Torsney and R. S. Ambartsumyan. *Bull. acad. sov. RSFSR, Classe sci. math. nat., Ser. chim.* 1936, 75 XX
on German 8891; cf. C. A. 30, 5160. - The assumption
that the aggressiveness of cracked benzenes in causing
corrosion of metals is due to their autoxidation is proven
experimentally by subjecting weighed specimens of Zn
plates to the action of Grosseney and Bakin cracked benze-
nes for varying periods of time (up to 770 days). From
the exptl. results it is established that the intensity of cor-
rosion of Zn is a function of the acidity and amt. of tars
present in the benzenes. Under certain conditions, a
"passive" film, probably composed of Zn and org. compds.,
forms on the Zn surface and protects it from further de-
compn. Eighteen references. John Livak

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

*CA**114*

Treatment of leprosy with a lipid preparation. V. M. Gubarev and N. A. Tsvetkov (Med. Inst. and Inst. Epidemiol. Mikrobiol., Rostov-on-Don). *Zhur. Mikrobiol., Epidemiol. Immunobiol.* 1947, 72-7; *Chem. Zentr.* (Russian Zone Ed.) 1949, I, 224-5. —The prepn. used (I) was obtained from the unsaponifiable lipide fraction of pathogenic organisms (cf. C.A. 41, 2401d) as a yellow waxy mass. It was usually used as an opalescent 1-2% soln. of the K salt. A 1:10,000 diln. had a strong vasoconstrictor action on isolated organs. The toxicity was slight; daily injections of 0.03-0.05 g. of pure I (in 0.5-2% aq. soln.) were tolerated by patients for long periods without injurious effects. The antibacterial action of I was tested on tuberculous bacilli in Sauton medium. A 1:100,000 diln. checked growth, while a 1:10,000 diln. completely stopped it. Brief contact of the bacteria with a 0.5% soln. of I did not

1951

TORSUEV, N.

Europe, Western - Commerce - United States

U. S. foreign trade expansion in countries of Western Europe, Wash. Inst., No. 1,
1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

1. TORSHEV, N.
2. USSR (600)
4. United States - Commerce - Europe, Western
7. U. S. foreign trade expansion in countries of Western Europe. Vnesh. torg., 23, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756410003-4

MORSHCHIKOV, V.; TORSUNOV, A.

"Creators of innovations in the seven-year plan." Reviewed by
V. Morshchikov, A. Torsunov. MTO 3 no.12:60-61 D '61. (MIRA 15:1)
(Technological innovations)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756410003-4"

KRASUKHIN, M.N., PAVLOV, L.P.; RUBAKHIN, V.N.; TORSUYER, V.N.

Improve the quality of willow liquor. Leg.prom. 18 no.10:27-30
O '58. (MIRA 11:11)

(Tanning materials) (Willows)

TORSUNOV, A.

Publications of the Economics Publication House in 1963.
Vop. ekon. no.3:121-123 Mr '63. (MIRA 16:3)
(Bibliography—Economics)

TORSUYEV, N.A., prof.; ANTON'YEV, A.A., otv.red.

[Bibliographic index of works of Russian writers on leprosy through 1957] Bibliograficheskii ukazatel' rabot otchestvennykh avtorov po lepre; do 1957 goda v kliuchitel'no. Rostov-na-Donu, Rostovskii eksperimental'no-klinicheskii leprozorii M-va zdravo-
okhraneniia RSFSR, 1959. 222 p.
(MIRA 12:12)
(BIBLIOGRAPHY--LEPROSY)

TORSUYEV, N.A., prof.

Some data on the status on dermatovenereology in the Chinese People's Republic. Vest.derm.i ven. 33 no.4:38-42 Jl-Ag '59. (MIRA 12:11)

1. Iz kafedry kozhnykh i venericheskikh bolezney Rostovskogo meditsinskogo instituta i Rostovskogo eksperimental'no-klinicheskogo leprozoriya Ministerstva zdravookhraneniya RSFSR.
(DERMATOLOGY)

TORSUYEV, N.A., prof.

Impressions from a visit to some dermatological clinics in
Poland. Vest.derm.i ven. no.9:63-70 '61. (MIRA 15:5)
(POLAND—DERMATOLOGY)

TOKSUYEV, N.A., prof.; PERM'LIK, D.I.; VICHNIKOV, I.B., red.

[Dispensary service for patients with chronic recurrent dermatoses] Dispenserizatsiya bol'nykh khronicheskimi re-tsidiviruiushchimi dermatozami. Kiev, Zdorov'ia, 1965. 69 p.
(MIRA 18:10)

TORSUYEV, N. A.

Torsuyev, N. A. and Grigorovich, Ye. N. "On the problem of gynecomastia
in lepers," Sbornik nauch. trudov (Rost. n/D gos. med. in-t), Vol. VIII,
1948, p. 145-53

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

TORSUYEV, N. A.

Torsuyev, N. A. and Glagoleva, M. N. "Painful percussion of the bone
as a symptom in the leper," Soornik nauch. trudov (Rost. n/D gos. med.
in-t), Vol. VIII, 1948, p. 155-61

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

TORSUYEV, N. A.

Medicine

Leprosy, Moscow, Mediz, 1951

Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED

TORSUYEV, N. A.

75th anniversary of the venereological and dermatological faculty
at the Rostov-on-Don Medical Institute. Vest. vener., Moskva no.2:46-
48 Mar-Apr 1952, (CIML 22:2)

1. Professor.

TORSUYEV, N.A., professor [author]; SHTEYN, A.A., professor [reviewer].

"Leprosy." N.A.Torsuev. Reviewed by A.A.Shteyn. Vest.ver.iderm. no.4:57-59
(MLRA 6:9)
Jl-Ag '53.
(Leprosy) (Torsuev, N.A.)

GOLOVIN, V. A. Prof.

"The Problem of the Method of Applying the Doctrine of Acupuncture in I. I. Pavlov's Information."

Vestnik voenicheskoy akupunktury (ulletin of military acupuncture),
No 1, January-February 1956, (Moscow).

TORSUYEV, N.A., professor.

Role and tasks of dermatologists and venereologists in controlling
leprosy. Vest.ven.i derm. no.1:28-29 Ja-F '54. (MLRA 7:2)

1. Iz Rostovskogo-na-Donu eksperimental'no-klinicheskogo leprozoriya
Ministerstva zdravookhraneniya RSFSR i kafedry kozhnykh i veneriche-
skikh bolezney Rostovskogo meditsinskogo instituta. (Leprosy)

TORSUYEV, N.A., professor; PANDEYEV, L.I., dotsent

All-Union Conference on treatment classification of leprosy.
Vest.ven.iderm.no.3:62-63 My-Je '55. (MLRA 8:10)
(LEPROSY)

TORSUYEV, N.A., professor.

Treatment of leprosy. Vest. ven. i derm. 6:35-37 N-D '55 (MIRA 9:5)

1. Iz Rostovskogo eksperimental'no-klinicheskogo leprozoriya
Ministerstva zdravookhraneniya RSFSR (glavnyy vrach-prof. N.A.
Torsuyev)
(LEPROSY, ther.)

AMERICAN MEDICAL ASSOCIATION Vol.12/2 Dermat-Venerolo. Feb 53
TORSUYEV N.A.

320. METHOD OF INVESTIGATION OF DISORDERS OF SWEATING IN THE
DIAGNOSIS OF EARLY LEPROSY (Russian text) - Torsuev N.A.
SBCRN.NAUCH.LEPROL.DERMAT. 1058, 7 (237-242)

The author uses a modification of the Minor test which consists of painting suspicious and healthy areas of skin with a 2-5% alcoholic solution of iodine, followed by powdering with starch; after this the patients are placed in a dry-air chamber and given 2-3 cups of hot tea. This test makes it possible to detect differences in sweating after only a few minutes. (S)

TORSUYEV, N.A., professor

The so-called prophylactic treatment in leprosy. Vest.ven. i derm.
30 no.4:40-43 Jl-Ag '56. (MIRA 9:10)

1. Iz Rostovskogo eksperimental'no-klinicheskogo leprozoriya
(glavnnyy vrach--prof. N.A.Torsuyev) Ministerstva zdravookhraneniya
RSFSR.
(LEPROSY, prev. and control)

TORSUYEV, M.A., professor

"Soviet medical abstracts. Skin and venereal diseases." Reviewed by
N.A.Torsuev. Vest.ven. i derm. 30 no.5:55-56 8-0 '56. (MIRA 9:12)
(SKIN--DISEASES) (VENERAL DISEASES)

TORSUYEV, N.

"Mauchnye zapiski" of the Gor'kii Institute of Dermatology and
Venereology and the Department of Skin and Venereological Diseases
of Gor'kii State Medical Institute. Vol.16. Reviewed by N.Torsuev.
Vest.ven. i derm. 30 no.6:46-47 N-D '56. (MIRA 10:2)
(Dermatology) (Venereology)

TORSUYEV
USSR / Microbiology. Microbes pathogenic
Animals. Bacteria. Mycobacteria. Mycobacteria
Leprae.
- N. A.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24158

Author : Torsuyev, N. A.
Inst : Turkmenian Scientific Research Dermatological-
Venerological Institute

Title : Materials for History of Leprosy in Turkmenia

Orig Pub : Tr. Turkm. n.-i. kozhno-venerol. in-ta, 1957,
5, 204-209

Abstract : No abstract given

Card 1/1

72

TORSUYEV, N.; ANTON'YEV, A.

"Communicable diseases of man." Reviewed by N. Torsuev, A. Anton'ev.
Vest.derm. i ven. 31 no.2:49-50 Mr-Ap '57. (MIRA 12:12)
(COMMUNICABLE DISEASES)

GORBOVITSKIY, S.Ye., prof.; TORSUYEV, N.A., prof.

Timofei Pavlovich Pavlov. Vest.derm. i ven. 31 no.5:50-52 S-0 '57.
(Dermatology) (MIRA 10:12)

contribution of Timofei P.Pavlov
(PAVLOV, TIMOFEI PAVLOVICH, 1860-1932)

ABDUSAMETOV, R.Kh. (Semipalatinsk), ANTON'YEV, A.A., kand.med.nauk. (Rostov-na-Donu), BRZHEZSKIY, V.Ch. (Tikhvin, Leningradskaya oblast')
GRZHUBIN, Z.N., prof. (Cherchovtsev), IVANOV, N.I., prof. (Leningrad)
KAZAKOV, V.I., doce. (Stavropol' na Kavkaze), SLAVKOVICH, S.Ye.
(Moskva), TORKUYEV, M.A., prof. (Rostov-na-Donu), MAKSIMOV, A.A.
doce. (Rostov-na-Donu), FAYN, A.E., kand.med.nauk (Saratov) KHISTIN, L.J.
prof. (Stanislav), YAKUBSON, A.K., prof. (Novosibirsk), LESNIKOV, Ye.P..
assistant (Novosibirsk)

Problems of teaching dermatovenerology in medical institutes. Vest.
derm. i ven. 32 no.3:60-69 '58

(MIRA 11:7)

(Dermatology, educ.
in Russia (Rus))
(Syphilology, educ.
in Russia (Rus))

TORSUYEV, N.A., prof.; GRIBENNIKOV, P.S., kand. med. nauk

Forms of participation of local preventive and therapeutic centers
in leprosy control. Sov.med. 23 no.1:138-143 Ja '59.
(MIRA 12:2)

1. Iz Rostovskogo-na-Donu eksperimental'no-klinicheskogo lepro-
zoriya Ministerstva zdravookhraneniya RSFSR.
(LEPROSY, prev. & control
in Russia (Rus))

TORSUYEV, N.A., prof.; TFRANG, S.A., kand.pedagogicheskikh nauk

Gerhard Hansen (140-1912); on the 50th anniversary of his death.
Vest. derm. i vte. 37 no. 10:66-71 O '63. (MTRA 17:9)

TORSUYEV, N.A., prof.

Current status of treatment and prevention of leprosy in the
U.S.S.R. and foreign countries. Vest.derm.i ven. no.1:51-57
'62. (MIRA 15:1)

1. Iz kafedry kozhnykh i venericheskikh bolezney Rostovskogo-
na-Doru meditsinskogo instituta (zav. - prof. N.A. Torsuyev)
i Rostovskogo-na-Doru eksperimental'no-klinicheskogo lepromoriya
Ministerstva zdravookhraneniya RSFSR (glavnnyy vrach K.K.
Kharabadzhakhov).
(LEPROSY)

TORSUYEV, N.A., prof.

Some problems in the epidemiology of the leprosy. Sbor. nauch.
rab. po lepr. i derm. no.13:3-16 '59. (MIRA 14:6)
(LEPROSY)

TORSUYEV, N.A.

Dermato-venerology in the Albanian People's Republic; personal
impressions. Vest.derm.i ven. 34 no.9:56-60 '60. (MIRA 13:11)

1. Iz kafedry kozhnykh i venerologicheskikh bolezney Rostovskogo
meditsinskogo instituta i Rostovskogo eksperimental'no-klinicheskogo
leprozoriya Ministerstva zdravookhraneniya RSFSR.
(ALBANIA--SKIN--DISEASES)

TORSUYEV, N.A., prof.

Results of using the preparation, RD, for treating leprosy.
Sbor. nauch. rab. po lepr. i derm. no.13:43-47 '59. (MIR 14:6)
(LEPROSY) (LIPIDS—THERAPEUTIC USE)

TORSUYEV, N.A., prof.

Nerve endings in the human skin. Vest.derm.i ven. 34 no.12:3-6
'60. (MIRA 14:1)

1. Iz kafedry kozhnykh i venericheskikh bolezney Rostovskogo medi-
tsinskogo instituta.
(SKIN--INNERVATION)

TORSUYEV, Nikolay Aleksandrovich, red.

[Discussions of a doctor] Besedy vracha. Rostov-na-Donu, 1959. 191 p.
(MIRA 14:9)

1. Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znanij
RSFSR. Rostovskoye oblastnoye otdeleniye.
(MEDICINE, POPULAR)

ZENIN, Aleksey Sergeyevich; TORSUYEV, Nikolay Aleksandrovich

[Textbook on skin and venereal diseases] Uchebnik kozhnykh
i venericheskikh boleznei. Moskva, Medgiz, 1960. 379 p.
(MIRA 13:8)

(SKIN--DISEASES)

(VENERAL DISEASES)

TORSUYEV, N.A.

LEPROSY

"The Procedure of Examining Disturbances in Perspiration for Diagnostics of Initial Leprosy", by N.A. Torsuyev, Sbornik Nauchnykh Rabot po Leprologii i Dermatologii, 1956, 7, pp 237-242 (from Meditinskiy Referativnyy Zhurnal, Section 1, No 2, 1957, p 147.)

A modification of Minor's test is described in detail. The author states that with this test it is possible to detect disturbances in perspiration in the course of a few minutes.

Card 1/1

- 36 -

APPROVED FOR RELEASE: 04/03/2001 in CIA-RDP86-00513R001756410003-4"

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67407

Author : Torsuyev, N.A.

Inst :

Title : Contemporary Forms and Methods of Combating Leprosy.

Orig Pub : Sov. meditsina, 1957, No 11, 85-89.

Abstract : No abstract.

Card 1/1

- 26 -

TORS

UYEV N. A.
EXCERPTA MEDIOA Sec 13 Vol 13/2 Dermatology Feb 59

498. SOME CAPILLAROSCOPIC OBSERVATIONS IN LEPROSY (Russian text) -
Tersuev N. A., Leontev E. V. and Rakhlina A. V. Rostov/Don-
SBORN. NAUCH. RAB. PO LEPROL. I DERM. (Rostov-na-Donu) 1956, 7
(221-224)

The state of capillaries at the nail bed of the fingers was studied in 70 leprosy patients (39 cases of anaesthetic type, 26 cases of tuberculoid and 5 cases of undifferentiated leprosy) before and 1-2 yr. after treatment. In 9 out of 21 cases of moderately severe anaesthetic leprosy an increase in the number of capillaries (40-50 per fields of vision), blurring of their outlines and shortening of the loops were observed. The lumen of capillaries generally narrowed with local tortuosities and dilations. Capillaroscopic improvement accompanied clinical recovery. In 3

448

cases of tuberculoid leprosy and acrocyanosis the capillaries were dilated and blood flow slowed down. These abnormalities disappeared with treatment. In 3 cases of undifferentiated leprosy with radial and ulnar neuritis and contractures and deformities of the fingers, capillaroscopy showed narrow and pale capillary loops in small numbers (20-25 per field of vision). Two years of treatment produced in those cases some clinical improvement but did not alter the capillaroscopic picture.

Mashkilieison Jr - Moscow (S)

N.A.
EXCERPTA MEDICA Sec 13 Vol 13/2 Dermatology Feb 59
MOSCOW (S)

499. THE PROBLEMS OF LEPROSY CLASSIFICATION (Russian text) -
Torquev N. A. Rostov/Don - SBORN. NAUCH. RAB. PO LEPROL. I
DERM. (Rostov-na-Donu) 1956, 7 (5-130)

The main faults of all existing classifications spring from the lack of recognition
of leprosy for what it is, namely a disease of the whole organism. Involvement of
internal organs, eyes etc. is not taken into account in existing systems of classi-
fication.

Mashkileison Jr - Moscow (S)



TORSUYEV, N.H -

TORSUEV, N.A.

"Treatment and prevention of skin diseases" by L.N. Mashkilleyson.
Sov.med. 22 no.11:155-157 E'58
(SKIN--DISEASES)
(MASHKILLEYSON, L.N.)

TORSUYEV, N.A., prof.

Modern forms and methods of control of leprosy. Sov.med. 21 no.
11:85-89 N '57. (MIRA 11:3)

1. Iz Rostovskogo-na-Donu eksperimental'no-klinicheskogo
leprozoriya Ministerstva zdravookhraneniya RSFSR.
(LEPROSY, prev. and control)

~~TORSUYEV, N.A.~~
TORSUYEV, N.A.

Z43. The Russian Leprologist, Grigori N. Torsuyev.
Mash. (Выдающийся русский лепролог Григорий
Николаевич Торсуй)
N. A. Torsuyev. Boechnik Beberologii i dermato-
logii [Vestn. Vener. Derm.] No. 3, 46-48, May-June

Abstracts of World Medicine Vol. 7 1950

TORSUYEV, N.A., professor; RYABOV, G.Z., redaktor; ~~EL'CHIKOVA, Yu.S.~~,
tekhnicheskiy redaktor.

P.V.Nikol'skii; 1858-1940. Moskva, Gos. izd-vo med. lit-ry, 1953.
(MIRA 7:9)
165 p.
(Nikol'skii, Petr Vasil'evich, 1858-1940)

TORSUYEV, N.P.

Karst, characteristics of the drainage network, and conditions in
the Onega and Northern Dvina interfluve. Vest.LGU 16 no.24:100-
111 '61. (MIRA 14:12)
(Northern Dvina Valley--Hydrology) (Onega Valley--Hydrology)

TORSUYEV, N.P.

Karst of the Mekhrenga River Basin. Izv. Vses. geog. ob-va 93
no. 6: 531-537 N-D '61. (MIR 15:1)
(Mekhren'ga Valley--Karst)

TORSUYEV, N.P.

Formation stages and age of karst in the Onega-Northern Dvina
interfluve. Izv.vys.ucheb.izav.; geol.i razv. 6 no.3:129-132
Mr '63. (MIRA 16:5)

1. Leningradskiy pedagogicheskiy institut imeni A.I.Gertseva.
(Onega Valley--Karst) (Northern Dvina--Karst)

TORSUYEV, N.P.

Change in the development and age of karst in the Onega-Northern
Dvina interfluve. Nat. zap. Ped. inst. Gerts. 244:117-175 '63.
(MIRA 18;3)

TORSUYEV, N.P.

Karst and the economic development of the area in the Onega-Northern
Dvina interfluve and the White Sea-Kuloy Plateau. Nov.kar.i spel.
(MIRA 16:10)
no.3:46-50 '63.

STUPISHIN, A.V., prof.; BABANOV, Yu.V., ml. nauchn. sotr.;
GUSEVA, A.A., ml. nauchn. sotr.; DUGLAV, V.A., dots.;
ZAKHAROV, A.S., dots.; KOSTINA, N.M., assistant; LAVROV,
D.D., dots.; LAPTEVA, N.N., assistant; ROMANOV, D.P., ml.
nauchn. sotr.; SIROTKINA, M.M., aspirant; SMINNOVA, T.A..
ml. nauchn. sotr.; TORSIYEV, M.P., st. prepod.; TAYSIN.
A.S., st. prepod.; TROFIMOV, A.M., assistant; KHARITONYCHEV,
A.T., prepod.; STUPISHIN, A.V., red.; KHABIBULLOV, R.K.,
red.

[Establishing physicogeographical regions in the middle
Volga Valley] Fiziko-geograficheskoe raionirovaniye Sred-
nego Povolz'ia. Kazan', Izd-vo Kazanskogo univ., 1964. 196 p.
(MIRA 18:12)

LAPTEVA, N.N., assistent; TORSUYEV, N.P., st. prepodavatal';
STUPISHIN, A.V., doktor geogr. nauk, prof., red.

[Basic list of geographical names; for students of the
department of geography] Spisok minimuma geografiche-
skikh nazvanii; rukovodstvo dlja studentov geografiche-
skogo fakul'teta. Kazan', 1965. 53 p. (MIRA 18:10)

1. Kazan'. Universitet.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756410003-4

AKHIEZER, A.V.; TROFIMOV, N.S.; TROFIMOV, A.M.

A new secret hole. Izv. Vses. Georg. obshch. 37 no.5:461-463
S.O. 155. (MIRA 18:11)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756410003-4"

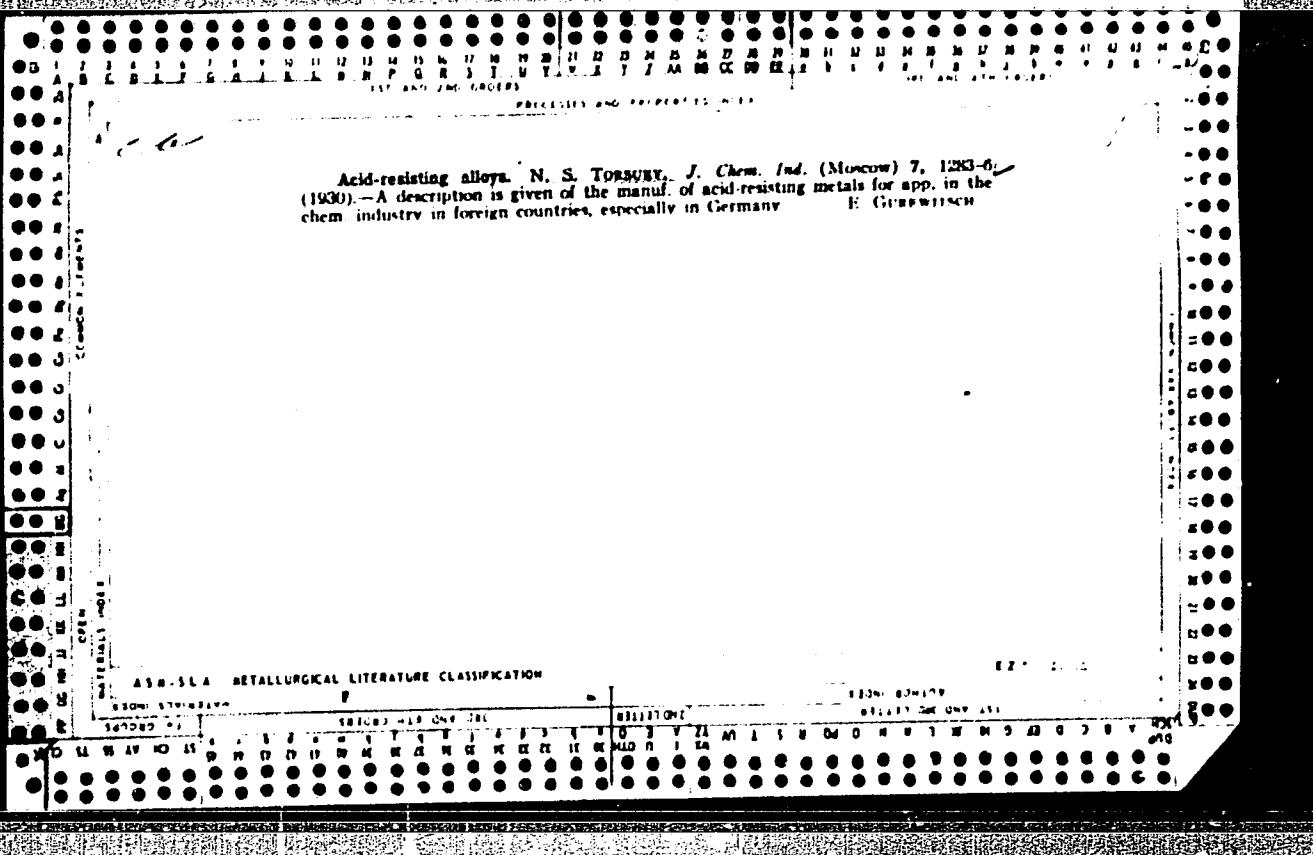
TORSUYEV, N.P.

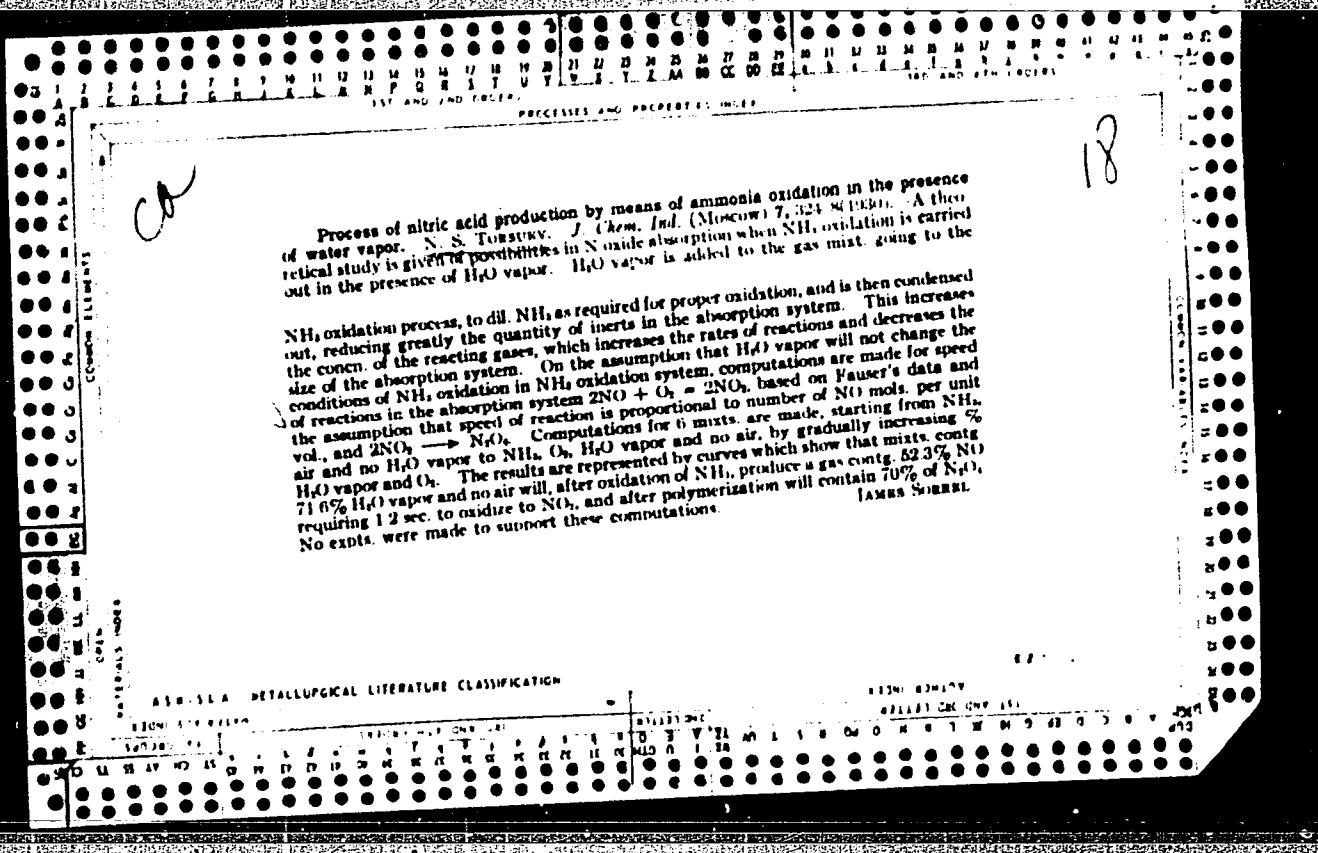
Intensity of recent karst manifestations in the Pinega
and Kuloy basins. Vest. Mosk. un. Ser. 5: Geog. 20 no.6:
55-58 N-D '65. (MIRA 19:1)

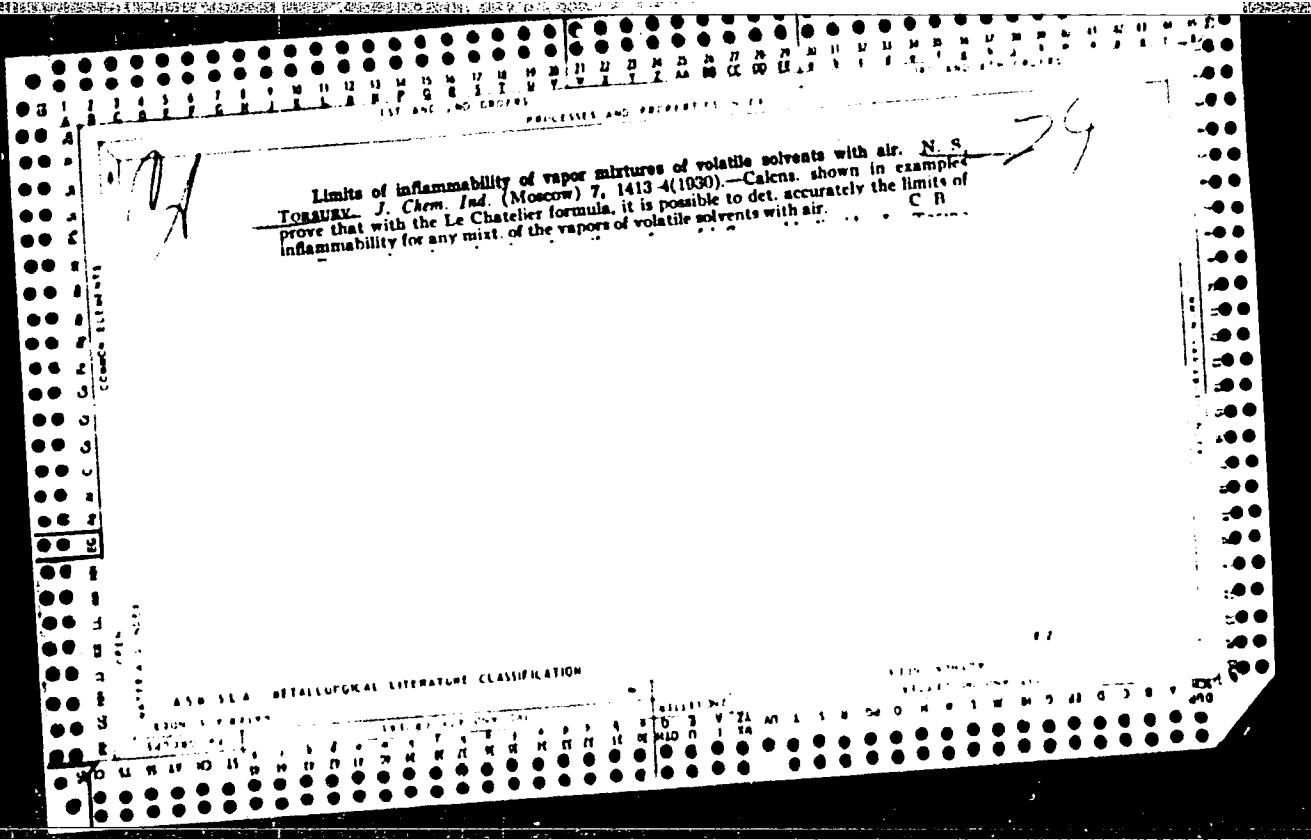
TORSUYEV, Nikolay Pavlovich; STUPISHIN, A.V., prof., ovt. red.;
SHASHINA, V.N., red.

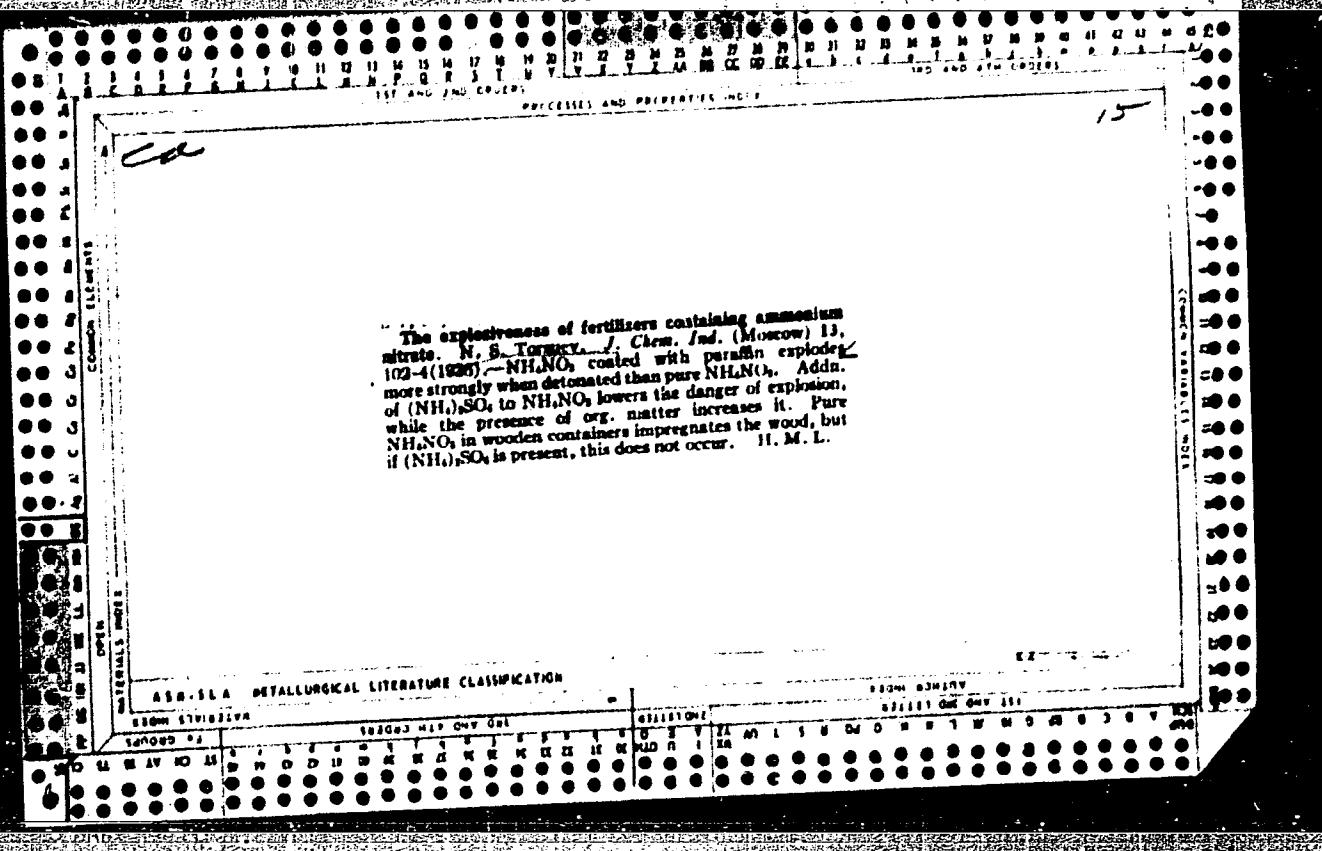
[Karst of the Onega-Northern Dvina interfluve; the
physicogeographical characteristics of the karst in the
north of the East European Plain] Karst Onego-Severo-
dvinskogo mezhdurech'ia; opyt fiziko-geograficheskoi
kharakteristiki karsta Severa russkoi ravniny. Kazan',
Izd-vo Kazanskogo univ., 1964. 100 p. (MIRA 17:11)

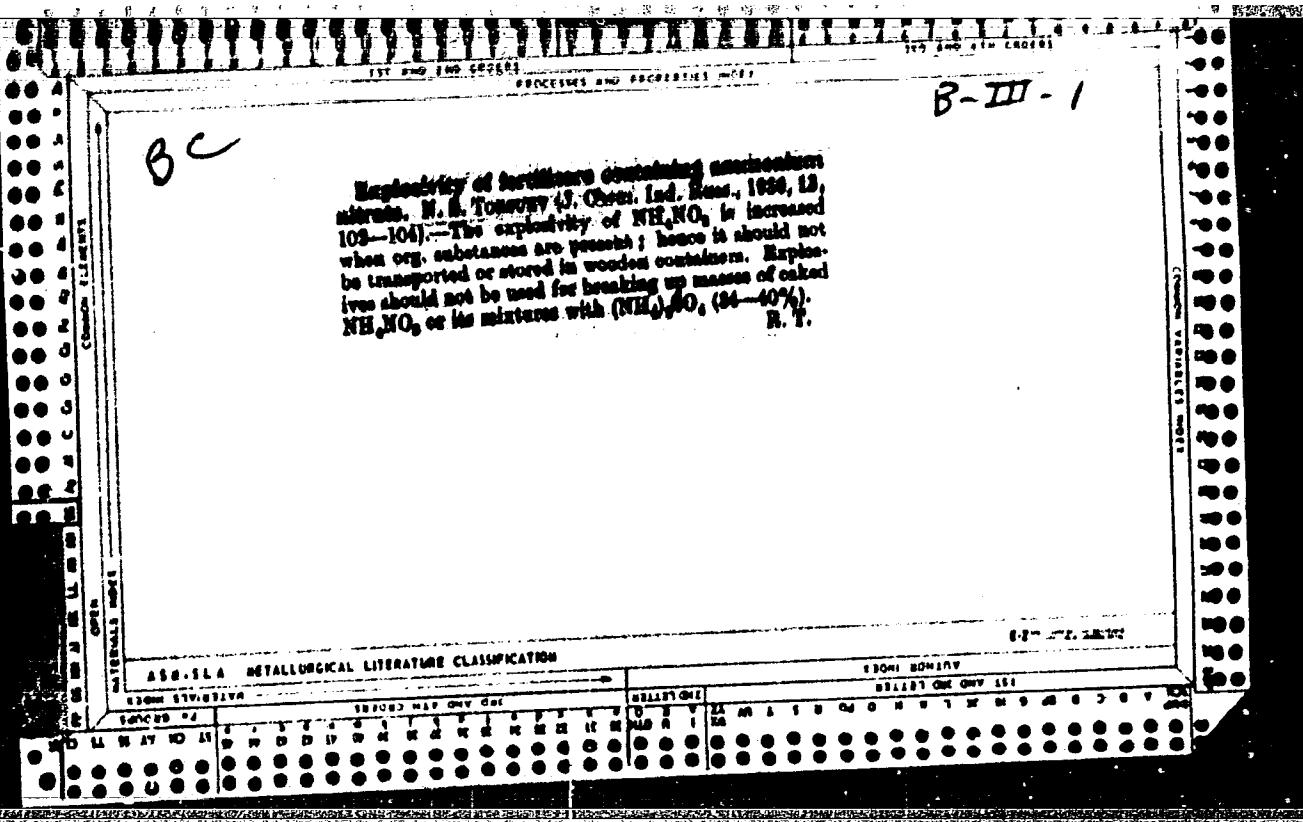
Acid-resistant alloys. N. S. TOSKOV. *J. Chem. Ind.* (Moscow) 7, 1233-6 (1930).—A description is given of the manuf. of acid-resistant metals for app. in the chem. industry in foreign countries, especially in Germany E. GRUNWALD











DC

INCREASING THE WATER-RESISTANCE OF CASEIN PAINTS (ON LEATHER) BY MEANS OF CHROME ALUM.
V. Torguev (Kosh. Obuvn. Prom., 1933, 12, 491).--
Leather dyed with casein pigments is treated with
a solution of chrome alum (I) (25%) and petroleum
sulphonic acids (0.5%). It is suspended from trestles
for drying (1 hr.), excess of (I) being then washed off.
The product has a high and stable gloss. Ch. Abs. (e)

B - 2 - 1 0

AB-21A METALLURGICAL LITERATURE CLASSIFICATION

FROM LIBRARY

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SERIAL NO.

103000 MIP ONLY ONE

SERIAL NO.

80

Determination of ammonium salts. V. TSURUYA
 (Kochi-Obun. Prog., S.S.R., 1953, 12, 460).—Excess of 0.5*N*-NaOH is added, NH_3 boiled off, and excess of NaOH titrated with acid (phthalimidephthalimide). In determining NH_4^+ salts in Ocepon etc., the substrate is extracted several times with hot H_2O and filtered. The method is suitable for plant conditions.

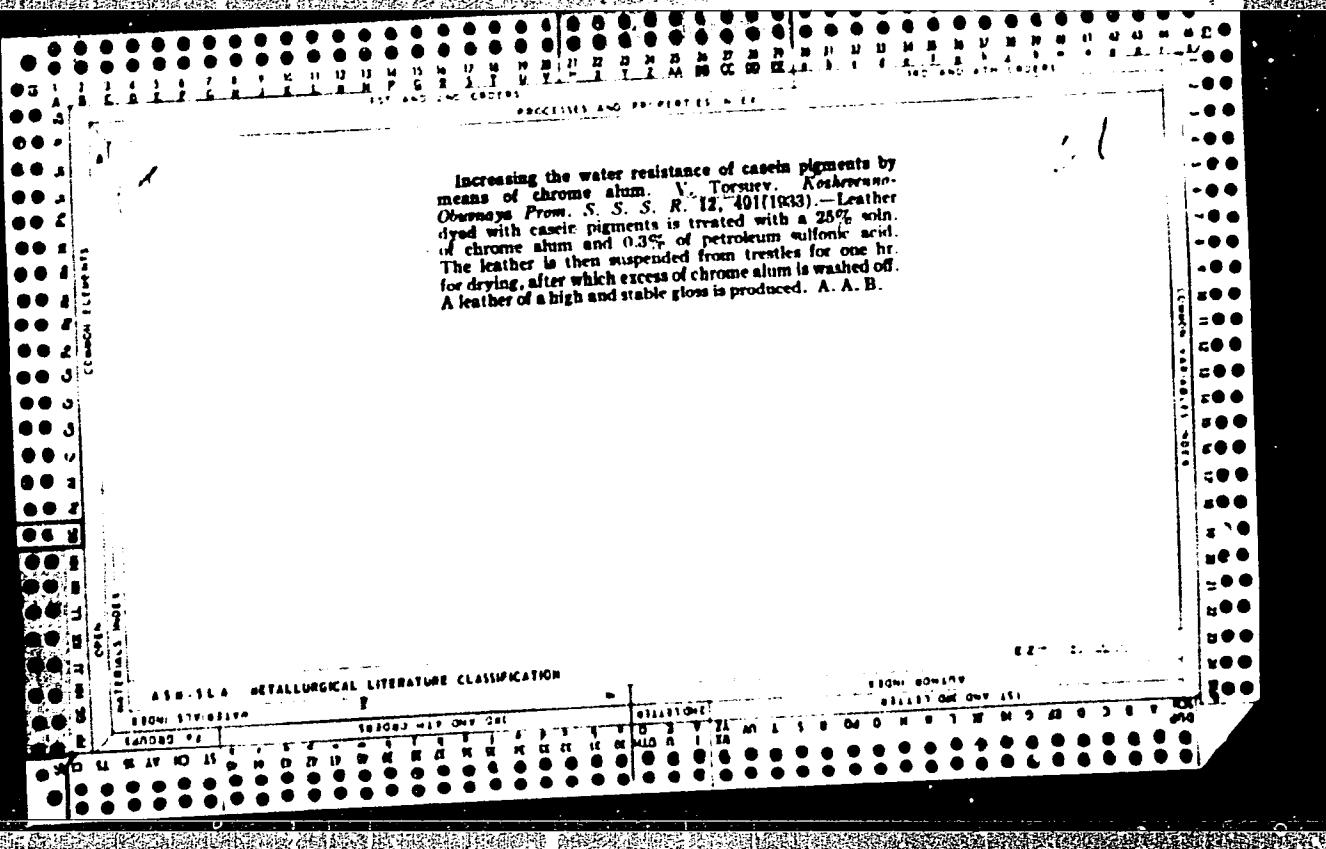
Cir. Ans. (e)

8-I-8

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756410003-4"

Increasing the water resistance of casein pigments by means of chrome alum. V. Torsvär. Kosherman-Obusmaya Prom. S. S. S. R. 12, 401 (1933).—Leather dyed with casein pigments is treated with a 25% soln. of chrome alum and 0.3% of petroleum sulfonic acid. The leather is then suspended from trentles for one hr. for drying, after which excess of chrome alum is washed off. A leather of a high and stable gloss is produced. A. A. B.



V.

✓

✓

Simplified method for determination of ammonium salts. V. Torshev. Koshevno-Oboyanaya Prom S. S. S. R. 12, 4657(1933).—Dissolve about 0.5-0.7 g. of $(\text{NH}_4)_2\text{SO}_4$ in a small vol. of H_2O and add an excess of 0.5 N NaOH in the presence of phenolphthalein. Boil to remove NH_3 and titrate back the remaining NaOH after cooling: $(\text{NH}_4)_2\text{SO}_4 + 2\text{NaOH} = \text{Na}_2\text{SO}_4 + 2\text{H}_2\text{O} + 2\text{NH}_3$. In the detn. of NH_4 salts in "oropone" ext. the substance a few times with hot water, filter the ext. through sawdust and husks and use together with the filtrate in the above detn. The results are satisfactory for plant conditions and the time required for the detn. is only 40-45 min. as compared with 1 $\frac{1}{2}$ -2 hrs. for the old method.

A. A. Hochling

Stabilizing casein plates on chrome leather. A. N.
Tosseru. Russ. 30,572, May 31, 1931. A soln of KCr
(SO₄)₂ or NaCr(SO₄)₂ is placed on the glass before it is
polished and the leather is then dried.

ASLIB METALLURGICAL LITERATURE CLASSIFICATION

TORSUYEV, Yu. [Torsuyev, IU.]

Under the banner of great Lenin. Znan.ta pratsia no.4:i-3 Ap
'62. (KIRA 15:4)

1. Sekretar' Tsentral'nogo komiteta Leninskogo kommunisticheskogo
soyuza molodezhi Ukrayiny.
(Communist Youth League) (Ukraine---Economic conditions)

TORSUYEVA, N. N.

Protein fractions in the blood serum in leprosy. Vest. derm. i
ven. 36 no.7:34-37 Jl '62. (MIRA 15:7)

1. Iz Rostovskogo eksperimental'no-klinicheskogo leprozoriya
Ministerstva zdravookhraneniya RSFSR (glavnyy vrach K. K.
Kharabazhakhs, nauchnyy rukovoditel' - prof. N. A. Torsuyev).

(LEPROSY) (BLOOD PROTEINS)

S/190/62/004/008/011/C16
B101/B138

Correlations in the effects of ...

induction period τ depends on pressure; at 170°C and 0.01 moles I/kg polypropylene, τ was 56 and 32 min at 300 and 600 mm Hg, respectively. (2) The absorption spectra of the oxidation products show that their composition remains unchanged during τ , while their amount is proportional to the decreasing inhibitor concentration. The change in concentration of II during oxidation follows a first-order rule. (3) During τ the decrease in the molecular weight of polypropylene is accelerated as the inhibitor concentration rises. At every polymer chain rupture approximately 5 mols. inhibitor are consumed. (4) τ is considerably shortened by adding I to polypropylene already containing II. (5) The low intensity of the δ_{pr} signals of I and II suggests that only a small portion of inhibitor is present in the form of free radicals. Conclusions: A large amount of inhibitor is consumed by direct oxidation and chain termination initiated by it, but only a small portion by those not initiated by it. The different behaviors of I and II are due to their different effects on initiation and branching, during hydroperoxide decomposition. Rapid and direct oxidation by molecular oxygen is assumed for II. There are 4 figures and 1 table. The most important English-language references are: E. L. Waters, C. J. Busso, Industr. and Engng. Chem., 41, 907, 1949;

Card 2/3

Correlation in the effects of ...

S/190/62/004/008/011/016
B101/B138

R. H. Rosenwald, J. R. Hoatson, Industr. and Engng. Chem., 41, 914, 1949;
R. H. Rosenwald, J. R. Hoatson, J. A. Chenicek, ibid., 42, 162, 1950.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of
Chemical Physics of the AS USSR)

SUBMITTED: May 18, 1961

Card 3/3

L 00832-67

EWT(m)/EWP(j) RM

ACC NR:

AP6027773 (4)

SOURCE CODE: UR/0190/66/008/008/1405/1410

AUTHOR: Shlyapnikova, I. A.; Miller, V. B.; Molvina, M. I.; Torsuyeva, Ye. S.
Shlyapnikov, Yu. A.

ORG: Institute of Chemical Physics, AN SSSR (Institut khimicheskoy fiziki
AN SSSR)

TITLE: Monoamines as antioxidants and regularities and mechanisms of their
effect

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 8, 1966, 1405-1410

TOPIC TAGS: monoamine, polypropylene, antioxidant

ABSTRACT: The oxidation of isotactic polypropylene in the presence of phenyl- α -naphthylamine and phenyl- β -naphthylamine occupying intermediate positions between strong and weak antioxidants was studied. The mechanism of the effect of antioxidants was analyzed. Orig. art. has: 5 figures and 11 formulas. [Based on authors' abstract] [NT]

SUB CODE: 07 / SUBM DATE: 05Jul65 / ORIG REF: 007 /

Card 1/1 hs

UDC: 678.01:54

SHLYAPNIKOV, Yu.A.; MILLER, V.B.; NEYMAN, M.B.; TORSUYEVA, Ye.S.

Participation of the inhibitor in the act of degenerated chain
branching. Dokl. AN SSSR 151 no.1:148-150 J1 '63. (MIRA 16:9)

1. Institut khimicheskoy fiziki AN SSSR. Predstavлено akademikom
N.N.Semonovym.
(Polypropylene) (Inhibition (Chemistry))

MEDVEDEVA, N.I.; NEYMAN, M.B.; TORSUYEVA, Ye.S.

Kinetic tracer method in the study of the mechanism of complex chemical and biochemical processes. Part II: Rate of formation and consumption of propylene in the cracking of propane. Zhur.-fiz.khim. 36 no.5:1016-1021 My '62. (MIRA 15:8)

1. Institut khimicheskoy fiziki AN SSSR.
(Propene) (Propane) (Cracking process)

MEDVEDEVA, N.I.; NEYMAN, M.B.; TORSUYEVA, Ye.S.; KRAVCHUK, I.P. (Moscow)

Kinetic tracer technique in the study of complex chemical
and biochemical processes. Part 10: Rates of formation and
consumption of ethylene in the cracking of propane. Zhur. fiz.
khim. 34 no.12:2780-2788 D '60. (MIRA 14:1)

1. Akademiya nauk SSSR, Institut khimicheskoy fiziki.
(Carbon--Isotopes) (Propane) (Ethylene)

29517
S/062/61/000/011/004/012
B119/B138

158061

AUTHORS: Shlyapnikov, Yu. A., Miller, V. B., and Torsuyeva, Ye. S.

TITLE: Principles of action of inhibitors in oxidation of
polypropylene

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh
nauk, no. 11, 1961, 1966-1970

TEXT: Linear, isotactic propylene was oxidized at temperatures above its melting point (up to 200°C with an oxygen pressure of up to 300 mm Hg) in the presence of inhibitors. The following compounds were used as inhibitors: 2,6-di (1,1-dimethylhexyl)-4-methyl phenol (1), 2,2'-methylene-bis-(4-methyl-6-tert-butyl phenol)-a (2), NN'-di-phenyl-p-phenylene diamine (3), N-phenyl-N'-cyclohexyl-p-phenylene diamine (4), and NN'-dicyclohexyl-p-phenylene diamine (5). Investigation was made into the dependence of the length of the induction period on the concentration of the inhibiting substance and on temperature, respectively, and the variation in the quantity of inhibitor during the induction period. X

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29517
S/062/61/000, J11/004/012
B119/B138

Principles of action of inhibitors ...

In the latter study, the unconsumed residues of the inhibitors were quantitatively distilled off from the reaction mixture and spectrophotometrically determined. The authors found that the consumption of inhibitor (1) was too high at 200°C and the length of the induction period was only weakly affected (with concentrations increasing up to 0.2 mole/kg there was a linear rise in induction period from 3 to 60 min at 200°C and from 3 to 170 min at 180°C). Concentrations of (2) up to 0.05 mole/kg show a steep rise in the induction period, from 5 to 300 min. Further increase in the concentration of (2), causes only a slight increase in induction period. The simultaneous presence of (1) and (2) shortens the induction period. The inhibiting action of both (1) and (2) is considerably reduced with rising oxygen pressure. Consumption of (2) during the induction period proceeds according to a first order reaction (effective velocity constant: $1.9 \cdot 10^{-4} \text{ sec}^{-1}$). The consumption of (1) also depends on its concentration. (3) In concentrations of 0.01 mole/kg to 0.015 mole/kg will prolong the induction period from a few minutes to 5 hr, whereas higher concentrations have only a slight additional effect. (4) has a

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S/062/61/000/011/004/012
B119/B138

Principles of action of inhibitors ...

critical concentration minimum. Of all substances investigated, (4) has the strongest oxidation-inhibiting effect. Consumption of (4) and (5) also corresponds to a first order reaction (velocity constant $9 \cdot 10^{-5} \text{ sec}^{-1}$ for (4) and $1 \cdot 10^{-3} \text{ sec}^{-1}$ for (5)). Consumption of (2), (4), and (5) mainly proceeds by direct oxidation, while a smaller part of these substances is converted by side reactions, such as formation of free radicals and cooperation in branching of propylene chains (especially in (1) and (3)). The dependence of induction period on initial concentration of the

inhibitor can be written approximately as follows: $\tau = \tau_{cr} + \frac{1}{k_i} \ln \frac{[I]}{[I]_{cr}}$,

$[I]_{cr}$ = critical concentration of inhibitor, $[I]$ = initial concentration of inhibitor, τ_{cr} = induction period of polymer without inhibitor, τ = induction period. [Abstracter's note: Meaning of k_i could not be determined]. Oxidation of the inhibitor initiates the destruction of the polymer. The present paper was read at the general meeting of the

Card 3/4

29517
S/062/61/000/011/004/012
B119/B138

Principles of action of inhibitors ...

Otdeleniye khimicheskikh nauk Akademii nauk SSSR (Department of Chemical Sciences of the Academy of Sciences USSR). There are 5 figures, 1 table, and 12 references: 8 Soviet and 4 non-Soviet. The four references to English-language publications read as follows: E. L. Waters, C. J. Busso, Industr. and Engng. Chem. 41, 907 (1949), R. H. Rosenwald, J. R. Hoaston, Industr. and Engng. Chem. 41, 914 (1949). R. H. Rosenwald, J. R. Hoaston, J. A. Chenicek, Industr. and Engng. Chem. 42, 162 (1950). G. W. Kennerly, W. L. Patterson, Industr. and Engng. Chem. 48, 1919 (1956). X

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

SUBMITTED: July 27, 1961

Card 4/4

S/020/61/136/003/022/027
B004/B056

AUTHORS: Neyman, M. B., Miller, V. B., Shlyapnikov, Yu. A., and
Torsuyeva, Ye. S.

TITLE: The Dependence of the Induction Period of the Oxidation on
the Concentration of the Antioxidant

PERIODICAL: Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 3,
pp. 647-650

TEXT: The authors proceed from the fact that the problem of the mechanism of the effect produced by inhibitors of the oxidation, especially the connection between induction period and concentration of an inhibitor is as yet not clear. The present paper therefore studies the effect produced by very low concentrations of oxidation inhibitors upon the induction of the oxidation. According to the chain theory by N. N. Semenov $\frac{dn}{dt} = w_1 + \gamma n$ (2) is written down for the oxidation. w_1 is the rate of initiation, n is the concentration of the active centers, γ the factor of self-acceleration. With addition of an inhibitor, which breaks ✓ -

Card 1/4

✓

The Dependence of the Induction Period of
the Oxidation on the Concentration of the
Antioxidant

S/020/61/136/003/022/027
B004/B056

off the reaction chain, the reaction follows the system of equations:
 $\frac{dn}{dt} = w_1 + \gamma n - kxn$ (3); $-\frac{dx}{dt} = kxn$ (4). x is the concentration of the inhibitor, k the rate constant of its reaction with the active centers. The following dimensionless variables are introduced: $\nu = n/w_1\tau_0$ (concentration of the active centers); $\kappa = x/w_1\tau_0$ (concentration of the inhibitor); $\Theta = t/\tau_0$ (time). Equations (3), (4) thus assume the form:

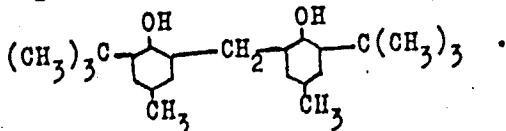
$\frac{dy}{d\Theta} = 1 + a\nu - b\kappa\nu$ (5); $-\frac{d\kappa}{d\Theta} = b\kappa\nu$ (6). $a = \varphi\tau_0$; $b = kw_1\tau_0^2$. The discussion of these equations leads to the following result: 1) with $\kappa_0 < a/b$ exponential growth of the active centers; with $\kappa_0 > a/b$ low steady rate of the reaction. Here, $\nu = 1/(b\kappa_0 - a)$ (7) holds for the concentration of the active centers. The induction period is finished as soon as $b\kappa_0 = a$. For the purpose of checking these theoretical assumption, experiments were carried out. The induction period of the thermal oxidation of polypropylene was determined in the presence of various inhibitors of the oxidation (phenolderivatives and aromatic amines). As an example, Fig. 3 shows the course taken by this reaction at

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The Dependence of the Induction Period of
the Oxidation on the Concentration of the
Antioxidant

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3004/B056

p_{O_2} = 300 mm Hg; 190, 200, and 210°C in the presence of the antioxidant A:



The induction period τ is represented as a function of the concentration x of the inhibitor. From the inclination of the initial sections of the curves $x_0 = k\tau_0/\rho$ is found. The rate constant k equals 21, 14, and 15 kg/mole.sec. for the temperatures given. For high values of x (steep sections in Fig. 3), an activation energy of about 40,000 kcal/mole is calculated, which corresponds to the activation energies for the oxidation of hydrocarbons. The effectiveness of various oxidation inhibitors may be compared on the basis of k . In this way, the authors proved that at low concentrations N,N' -phenylcyclohexyl-p-phenylenediamine as inhibitor, with polypropylene-oxidation is more effective than the

Card 3/4

The Dependence of the Induction Period of
the Oxidation on the Concentration of the
Antioxidant

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B004/B056

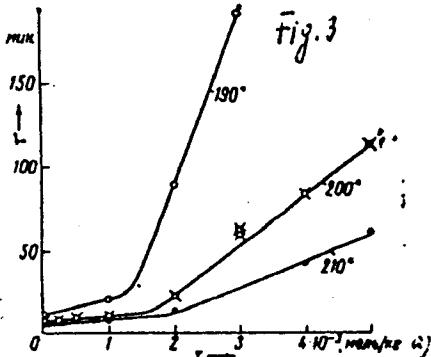
inhibitor A. There are 3 figures and 7 references: 6 Soviet and 1
British.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute
of Chemical Physics of the Academy of Sciences USSR)

PRESENTED: July 29, 1960, by V. N. Kondrat'yev, Academician

SUBMITTED: July 29, 1960

Legend to Fig. 3: a) mole/kg



Card 4/4

SHLYAPNIKOV, Yu.A.; MILLER, V.B.; TORSUYEVA, Ye.S.

Laws governing the action of inhibitors in the oxidation of poly-
propylene. Izv.AN SSSR.Otd.khim.nauk no.11:1966-1970 N '61.
(MIRA 14:11)

1. Institut khimicheskoy fiziki AN SSSR.
(Polypropylene) (Inhibition (Chemistry))

SHLYAPNIKOV, Yu.A.; MILLER, V.B.; NEYMAN, M.B.; TORSUYEVA, Ye.S.; GROMOV,
B.A.

Thermooxidative degradation of polypropylene. Part 3: Study of the
relative effectiveness of some antioxidants. Vysokom. soed. 2 no.9:
(MIRA 13:9)
1409-1412 S '60.

1. Institut khimicheskoy fiziki AN SSSR.
(Propene) (Antioxidants)

S/076/60/034/012/014/027
B020/B067

AUTHORS: Medvedeva, N. I., Neyman, M. B., Torsuyeva, Ye. S., and Kravchuk, I. P.

TITLE: Kinetic Method of Using Labelled Atoms in the Study of Complex Chemical and Biochemical Processes. X. Study of the Rates of Formation and Consumption of Ethylene in the Cracking of Propane

PERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 12,
pp. 2780-2788

pp. 1,000.

TEXT: Fig. 1 shows the scheme of a vacuum device for propane cracking, which was made under static conditions in a quartz reaction vessel. The reaction vessel was inserted into a horizontal tube furnace. The temperature of the furnace was controlled by a calibrated chromel-alumel thermocouple. Propane to which labelled ethylene $C_2^{14}H_4$ had been added was cracked and was synthetized from propylbromide via an organic magnesium compound. It contained 0.5% ethane and 1% propylene. The ethylene labelled

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Kinetic Method of Using Labelled Atoms in the
Study of Complex Chemical and Biochemical
Processes. X. Study of the Rates of Formation and
Consumption of Ethylene in the Cracking of Propane

S/076/60/034/012/014/027
BO20/BO67

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with radioactive carbon C¹⁴ was produced from BaC¹⁴O₃. A chromatographic column filled with MCM-1 (MSM-1) silica gel was used to isolate the reaction products. Fig. 3 shows the characteristic separation curves of the cracking products of propane: the time or the proportional amount of nitrogen which has passed through the column were plotted along the axis of abscissas, the values read from the interferometer were plotted along the axis of ordinates. The maximum measuring error was 10-15%. By means of the method described the authors studied the cracking of propane by adding labelled ethylene up to a 20-25% conversion at 580, 554, 532, and 510°C. Fig. 4 shows the kinetic curves of the decomposition of propane with a content of 0.5% of ethane and 1% of labelled ethylene at four temperatures. The activation energy of the entire propane cracking process increases from 65,500 cal/mole with a 3% conversion to 72,500 cal/mole with 17% conversion. Fig. 6 shows the change of the specific activity of ethylene (Curve 1) and ethane (Curve 2) with the degree of cracking for four experimental series at different temperatures. Table 1 gives data on

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Kinetic Method of Using Labelled Atoms in the
Study of Complex Chemical and Biochemical
Processes. X. Study of the Rates of Formation and
Consumption of Ethylene in the Cracking of Propane

S/076/60/034/012/014/027
B020/B067

the activation balance at 580, 554, 532, and 510°C. Fig. 7 graphically illustrates the experimental curves of the accumulation of ethylene (1) and ethane (2) in the course of thermal decomposition of propane. Table 2 gives the rates of formation of ethane from ethylene in millimoles per second which were calculated from the equation $w = (1/\alpha)(dI_{C_2H_6}/dt)$ (2), where w is the rate of formation of ethane from ethylene, α the specific activity of ethylene, and $I_{C_2H_6}$ the total activity of ethane. The rate of accumulation of ethane during the reaction was experimentally determined and found to be equal to the rate of formation of ethane from ethylene which was calculated by the kinetic method (Table 3). Fig. 8 shows the rates of formation of ethylene w_1 , calculated from four experimental series at different temperatures and without consideration of the ethylene consumption during the reaction. Fig. 9 shows that the temperature course of the initial rates of formation of ethylene leads to an activation energy of this process of $E = 62,500$ cal/mole. Table 4 shows the concentrations of n-propyl radicals at 580°C. The equation

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Kinetic Method of Using Labelled Atoms in the
Study of Complex Chemical and Biochemical
Processes. X. Study of the Rates of Formation and
Consumption of Ethylene in the Cracking of Propane

S/076/60/034/012/014/027
B020/B067

$$w_2 = w = fk_o e^{-E/RT} [C_2H_4] [H^+]$$

was given for the consumption of ethylene, where the values of H^+ at 580° with $f = 0.01$, $k_o = 10^{-10} \text{ cm}^3 \text{sec}^{-1}$ mole sec $^{-1}$ and $E = 5,000 \text{ cal/mole}$ are given in Table 5. A. V. Frost, A. D. Stepukhovich, and S.Z. Roginskiy are mentioned. There are 9 figures, 5 tables, and 15 references: 13 Soviet and 2 US.

ASSOCIATION: Akademiya nauk SSSR, Institut khimicheskoy fiziki (Academy of Sciences of the USSR, Institute of Chemical Physics)

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Card 4/4

NEYMAN, M.B.; MILLER, V.B.; SPLYAPNIKOV, Yu.A.; TORSUYEVA, Ye.S.

Dependence of the induction period of oxidation on the antioxidant concentration. Dokl. AN SSSR 136 no. 3:647-650 Ja '61.

(MIRA 14:2)

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академиком V.N. Kondrat'yevym.
(OXIDATION) (ANTIOXIDANTS)

TORSUYEVA, Ye. S.

11 Sep 52

USSR/Chemistry - Isotopes

"Investigation of the Reaction of Formation of Thiosulfate From H₂S and SO₂ With the Aid of Radioactive Sulfur," M. B. Neyman, Ye. S. Torsuyeva, A. I. Frdoseyeva, P. S. Shantarovich, Inst of Chem Phys, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol 86, No 2, pp 317-320

The mechanism of the reaction of the formation Na₂S₂O₃ from SO₂ and H₂S was investigated using active H₂S³⁵ and inactive SO₂. The H₂S³⁵ was prep'd by reducing BaS³⁵O₄ at 900-1,000° to BaS³⁵, which was decomposed to H₂S³⁵ with HCl. The central S atom of the thiosulfate mol is derived from the inactive SO₂. The peripheral S atoms come from both the H₂S and SO₂. Presented by Acad N. N. Semenov 3 Jun 52.

PA 235T26

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Hyposulfites

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